Memorandum

To: *Stephanie Vaughn (USEPA)*
Elizabeth Buckrucker (USACE)

From: *Sharon Budney (CDM)*
George Molnar (CDM)

Date: *May 12, 2010*

Re: *Status Report (May 2010)*
CPG Oversight of Physical Water Column Monitoring
Lower Passaic River Restoration Project

On behalf of the United States Environmental Protection Agency (EPA) and the United States Army Corps of Engineers (USACE), Kansas City District, CDM Federal Programs Corporation (CDM) is providing oversight of the Cooperating Parties Group (CPG) remedial investigation/feasibility study (RI/FS) field activities associated with physical water column monitoring (PWCM), and the collection of physical data in the Lower Passaic River (LPR).

CDM oversight activities were conducted May 1 through May 4, 2010. Oversight included the observation of instrument maintenance, and collection of samples in the LPR in support of the CPG PWCM study. In addition, CDM also collected split samples at select locations. All activities were conducted in accordance with the CPG *Quality Assurance Project Plan (QAPP)/Field Sampling Plan Addendum, Remedial Investigation Water Column Monitoring/Physical Data Collection for the Lower Passaic River, Newark Bay and Wet Weather Monitoring, Lower Passaic River Restoration Project*, Revision 4, March 2010.

Photographs of field activities can be found in Attachment 1. Copies of the logbook notes can be found in Attachment 2.

Instrument Maintenance at Locations below Dundee Dam (May 1 and 2, 2010)
The following summarizes oversight observations of instrument maintenance conducted May 1 and 2, 2010 at river miles (RM) 1.4, 4.2, 6.7, 10.2, and 13.5.

Prior to retrieving moored instruments for their monthly maintenance check, CPG contractor Ocean Surveys Incorporated (OSI) lowered a conductivity, temperature, and depth/optical backscatter (CTD/OBS) meter next the instruments to obtain a profile of real-time measurements through the water column. Afterwards, surface water samples for suspended solids concentration (SSC) were collected three feet above river bottom, and three below river surface via pump mounted to the CTD/OBS meter. Samples were collected by CPG contractor AECOM . During sample collection, real-time readings were measured by the CTD/OBS meter. This was repeated at all locations.

Once the SSC samples were collected, all instrumentation was pulled, cleaned, and inspected for damage. Batteries were checked and replaced if needed, and data were downloaded. All instruments pulled were functioning fine and required no replacement or re-calibration. After servicing, instrument arrays were reassembled and re-deployed within the same area as they were pulled.

After all instruments were re-deployed, crews waited approximately 20 minutes to allow any suspended sediments stirred up during re-deployment to settle or be swept away. Afterwards, surface water samples for SSC were collected three feet above river bottom, and three feet below river surface. Prior to sample collection, a CTD/OBS meter was lowered to obtain a profile of real-time measurements through the water column adjacent to the meters. Real-time readings were also measured during sampling via pump and tubing which were attached to the CTD/OBS meter.

Coordinates of instruments and water depths at re-deployment are as follow:

- RM 1.4: Northing: 691231.60/Easting: 598001.36; Depth: 19 feet
- RM 4.2: Northing: 692308.12/Easting 588245.50; Depth: 19 feet
- RM 6.7: Northing: 702839.46/Easting: 586136.11; Depth: 13.5 feet
- RM 10.2: Northing: 719746.69/Easting 592104.67; Depth: 17.8 feet
- RM 13.5: Northing: 734285.92/Easting: 597208.94; Depth: 17.2 feet

Boat-Based Transect Survey at Locations below Dundee Dam (May 3, 2010)

The following summarizes oversight observations of acoustic Doppler current profile (ADCP) transect surveys and the collection of surface water samples at locations below Dundee Dam.

CDM oversight staff observed boat-based ADCP transect surveys at RMs 1.4, 4.2, 6.7, 10.2, and 13.5. Transect surveys were conducted during ebb and flood tides. Each survey was conducted in the area of three predetermined locations (P1 through P3) moving across the river channel. Once each survey was finished, crews lowered a CTD/OBS meter to obtain a profile of real-time measurements through the water column. This was conducted at each location followed by the collection of surface water from three feet below river surface, and three feet above river bottom via pump and tubing mounted to the instrument. Samples were collected for SSC, DOC, and POC analysis from locations collocated with moored instruments, and from locations furthest away. These locations consisted of P1 and P3 at every RM. No samples were collected for DOC and POC analysis at location P2 at any RM.

During sample collection, CDM oversight staff observed the pre-labeled CPG bottle for the incorrect transect location (P3 instead of P1) at RM 13.5 was filled by the AECOM representative. CDM informed the sampler who subsequently discarded the sample and bottle and re-sampled using a new bottle. CDM corrected AECOM another two times during separate instances as he was ready to sample using pre-labeled bottles assigned for different RM locations. Despite these discrepancies, the correct bottles were filled for their corresponding RM locations.

CDM oversight staff collected split samples during the flood tide transect survey from both depths at locations collocated with moored instruments. Samples were collected for SSC, DOC, and POC analysis, and were collected at the same time as those collected by AECOM via "Y" junction at the end of tubing which was connected to the pump. Split samples and corresponding CPG samples are presented in Table 1. Split samples were delivered via hand courier to the EPA Division of Environmental Science and Assessment (DESA) laboratory for analysis. Copies of CDM's signed chain of custodies can be found in Attachment 3.

Instrument Maintenance and Boat-Based Transect Survey above Dundee Dam (May 4, 2010)

The following summarizes oversight observations of OBS meter maintenance, the ADCP transect survey, and collection of surface water samples above Dundee Dam (RM 17.5). Per the CPG QAPP, only an OBS meter is deployed at this location which is affixed to a buoy suspending it three feet below river surface.

Prior to pulling the OBS meter for maintenance, OSI lowered a CTD/OBS meter to obtain a profile of real-time measurements through the water column adjacent to the location of the buoy-mounted OBS meter. Following the cast, the meter was lowered again and samples were collected three feet below river surface, and three feet above river bottom while the meter was recording data. Samples were collected by AECOM for SSC analysis.

After sampling, the OBS meter was pulled, cleaned, and inspected, and data were downloaded. The OBS meter was functioning fine and did not require any re-calibration, and was redeployed in the correct location. Approximately 20 minutes after re-deployment to allow sediments to settle, a second set of SSC samples and concurrent real-time CTD/OBS readings were collected. The coordinates of the buoy-mounted OBS meter and water depth are as follow:

- RM 17.5: Northing: 747516/Easting 594477; Depth: 9 feet

Following post-maintenance/re-deployment sampling, OSI conducted a boat-based ADCP transect survey. After the survey, a CTD/OBS meter was lowed at each of four predetermined locations (P1 through P4) along the transect line to obtain a profile of real-time measurements through the water column. Following the CTD/OBS cast at each location, AECOM collected samples from three feet below river surface. At the location of the buoy-mounted OBS meter, samples were collected three feet below river surface and three feet above river bottom. All samples were analyzed for SSC, DOC, and POC. CTD/OBS measurements were recorded in real-time during sampling activities.

CDM oversight staff collected split samples from both depths for SSC, DOC, and POC analysis at Location P2. Samples were collected at the same time as those collected by AECOM via "Y" junction at the end of tubing which was connected to the pump. Split samples and corresponding CPG samples are presented in Table 1. Split samples were delivered via hand courier to the EPA DESA laboratory for analysis. Copies of CDM's signed chain of custodies can be found in Attachment 3.

Table 1
Cooperating Parties Group and CDM Split Sample Identification
May 2010 Physical Water Column Monitoring Oversight
Lower Passaic River Restoration Project
Lower Passaic River, New Jersey

River Mile	Mooring Location	CPG Sample ID	CDM Split Sample ID	QC Samples	Tide Event	Collection Date	Analysis
1.4	P3	10A-E07-T014-P3-AS	10A-E07-T014-P3-AS-C		flood	5/3/2010	SSC, DOC, POC
		10A-E07-T014-P3-BS	10A-E07-T014-P3-BS-C		flood	5/3/2010	SSC, DOC, POC
4.2	P1	10A-E07-T042-P1-AS	10A-E07-T042-P1-AS-C		flood	5/3/2010	SSC, DOC, POC
		10A-E07-T042-P1-BS	10A-E07-T042-P1-BS-C		flood	5/3/2010	SSC, DOC, POC
6.7	P3	10A-E07-T067-P3-AS	10A-E07-T067-P3-AS-C		flood	5/3/2010	SSC, DOC, POC
		10A-E07-T067-P3-BS	10A-E07-T067-P3-BS-C		flood	5/3/2010	SSC, DOC, POC
10.2	P1	10A-E07-T102-P1-AS	10A-E07-T102-P1-AS-C		flood	5/3/2010	SSC, DOC, POC
		10A-E07-T102-P1-BS	10A-E07-T102-P1-BS-C		flood	5/3/2010	SSC, DOC, POC
13.5	P3	10A-E07-T135-P3-AS	10A-E07-T135-P3-AS-C		flood	5/3/2010	SSC, DOC, POC
		10A-E07-T135-P3-BS	10A-E07-T135-P3-BS-C		flood	5/3/2010	SSC, DOC, POC
17.5*	P2	10A-E06-T175-P2-AS	10A-E06-T175-P2-AS-C	MS **	NA	5/4/2010	SSC, DOC, POC
			10A-E06-T175-P2-AS-X	Duplicate ***	NA	5/4/2010	SSC, DOC, POC
		10A-E06-T175-P2-BS	10A-E06-T175-P2-BS-C		NA	5/4/2010	SSC, DOC, POC

CPG - Cooperating Parties Group
ID - identification
QC - quality control
SSC- suspended solids concentration
DOC - dissolved organic carbon
POC - particulate organic carbon
MS - matrix spike
NA - not applicable; location above head of tide
* - location above Dundee Dam
** - MS only for DOC analysis
*** - field duplicate sample of CDM split sample 10A-E06-T175-P2-AS-C denoted with the prefix "X"

CPG samples and CDM split samples are identified by Program-Event-Transect-Station-Depth-Type; split samples are followed by the prefix "C"
Where:
Program - Two-digit year plus "A" identifying the Spring 2010 Passaic River sampling program
Event - "E" plus two digit sequence number for sampling event
Transect - "T" plus three-digit representation of river miles by tenths. For example, T042 indicates river mile 4.2
Station - "P" plus single-digit sequence for position along transect moving from left bank. For example, "P2" for second location.
Depth - Single character sequence letter for depth interval. "A" for depth interval nearest river surface (i.e., three feet below surface); "B" for intervals of increasing depth (i.e., three feet above river bottom)
Type - Single character for sample type: "S" for normal sample

Attachment 1
Photographs of Physical Water Column Monitoring Activities

Photo 1. CTD/OBS meter

Photo 2. CTD/OBS/ADCP array; ADCP can be seen on the left

Photo 3. CTD/OBS/ADCP array being pulled for maintenance

Photo 4. AECOM representative collecting a sample for SSC analysis. No split sample was collected at this time.

Attachment 2
Copies of Oversight Field Logbook Notes

Location LPR Date 5/1/10

Project / Client Lower Passaic River (MW)
Maintenance Check Oversight

745 Mel Kobeck (MK) CDM at Yacht Club w/ # OTC — mk
Steve Bodack & Dustin Kach onsite
Mobilizing for the day — m
PPE: Level D modified —
Weather: 80°F, Sunny —
815 Mike Hauser onsite AECOM
Heading up to River Mile 13.5
935 At River mile 13.5 cast CTD/OBS to grab SSC samples from bottom & top
Data was recording while collecting sample
1017 Pulled up CTD/OBS & ADCP and downloading data, cleaned & changed the batteries - data looks good mer
1140 Re-deployed CTD/OBS & ADCPs
GPS: E 597208.94 N734285.92
Depth to H_2O: 17.2' bgs NAD 83
1150 Collecting second sample SSC
E09 T135 P3 BS & AS 13[57]/13[58]
E09 T135 P3 BS & As 15[51]/15[53]
1154 Heading to River Mile 10.2
1210 At River Mile 10.2 cast CTD/OBS to grab SSC samples from bottom & top

mer 5/11/10

Location LPR Date 5/1/10

Project / Client Lower Passaic River
Maintenance Check Oversight (MW)

1225 Pulled up CTD/OBS & ADCP downloading data / clean / change batteries
Data looks good — mer
1350 Redeploy CTD/OBS & ADCP
GPS: E 592104.67 N 719746.69
Depth to Water: 17.8' below —
1355 Collecting second SSC sample three feet from bottom & below surface
E05 T188P1 BS & AS 15'4 / 15'6 MK 5.1.10
E09 T102P1 BS & As 17[59] / 18[01]
1405 Heading to River Mile 6.7
Note duplicate E09T02P1BT at BS
1422 At River Mile 6.7 — m
1445 Collecting CTD/OBS sample SSC - bottom and top. Collecting data
1505 - only collected a bottom SSC sample (BS) from CTD/OBS - the tubing is clogged or kinked - water is not coming out through tubing - when unhooking the long tubing - the CTD/OBS works / pumps - so its in the tubing. Crew working to fix the problem. —
1526 - Fixed tubing grabbed AS sample

mer 5/1/10

Location LPR Date 5/1/10

Project / Client Lower Passaic River Maintanence Check Oversight (MD)

1530 Pulling up CTD/OBS + ADCP data download / Clean / Change batteries
Data looked good — mew
1650 Redeploy CTD/OBS + ADCP
GPS: E 586136.11 N 702839.46
Depth to H_2O: 13.5' — mek
1657 Collecting SSC sample from Top + Bottom
E05 T067 P3 BS/AS : ~~1844~~ 1844 1925 mk 5/1/10
E09 T067 P3 BS/AS : 2059/2100 mek 5/1/10
1702 Heading back to the yacht club
Completed tasks for the day
1730 Crew back at yacht club
1730 E09 T067 P3 X R - Field Blank
Put pump in DI water + collect sample
1740 Crew offsite

mek 5/1/10

Location LPR Date 5/3/10

Project / Client Lower Passaic River Maintenance Check Oversight

645 - Mel Koberle (mk) CDM onsite
Ocean Survey: Dustin Kach + ~~Ryan~~ Brian mk 5/3/10
Bolleg AECom: Jim Alderson
Weather: Rainy 80°F, Cloudy
PPE: Level D mod w/ life Jacket
745 Crew mobilizing on boat
810 Conducted H+S meeting - AECom and OTC. - Starting at River Mile 13.5 - mapping transect. Had some computer problems - but fixed. mew
835 Lowering CTD/OBS - collecting data
842 AEcom collect 10A-E07 T135 P1 BS/AS at 1242/1243 for POC/DOC/SSC
855 AEcom collect 10A-E07 T135 P2/BS/AS at 1255/1256 for POC/DOC/SSC
Note: CDM had to tell AEcom to change sample ID used P3 bottles at P1 location
Note: CTD/OBS is dropped/casted for depth to water + quality readings before sampling
900 AEcom collect 10A-E07 T135 P3 BS/AS at 1306/1308 CDM collect split sample 10A-E07 135 P3 BS/AS E at 906/908
913 Heading to River Mile 10.2

mew 5/3/10

Location UPR Date 5/3/10

Project / Client Lower Passaic River
Split Sampling DOC/POC/SSC

935 At River mile 10.2 - mapping
940 AECOM collect 10A-E07 T102 P2 AS/BS at 1345/1348 for DOC/POC/SSC
collect split sample 10AE07-T102 AS/BS at 945/948 — mcn 5/3/10
955 AECOM collect 10AE07T102P2 BS/AS at 1355/1356 for POC/DOC/SSC
1002 AECOM collect 10AE07 T02P3 BS/AS at 1402/1406 for POC/DOC/SSC
Note: AECOM collected a duplicate at 10AE07 T135 P1 AS called in AT
1030 At River Mile 6.7 mapping
1047 AECOM collect 10AE07T067P1BS/AS at 1450/1452 for POC/DOC/SSC
1059 AECOM Collect 10AE07 T067P2 BS/AS at 1459/1501 for POC/DOC/SSC
1105 AECOM Collect 10AE07T067P3 BS/AS at 1506/1508 for POC/DOC/SSC
COM Collect split sample 10AE07T067P3 BS/AS at 1106/1108 for POC/DOC/SSC
1120 Crew heading back to CPG facility 5/3/10
Note: AECOM collected duplicate at 10AE07T067P1 AS called it AT and 10AE07T067P3 BS called it BT
BS

Location UPR Date 5/3/10

Project / Client Lower Passaic River
Split Sampling DOC/POC/SSC

1200 Back at CPG facility - transfer samples to Stef Britch (CDM) for processing
Take lunch — mcn
1330 MK back at CPG facility crew mobilizing for flood tide E08 event
1400 Crew leaving dock to River mile 13.5
1401 mapping at RM 13.5 — mcn
1409 Casting CTD 10BS before sampling collecting readings while sampling. The ADCP is hooked up to the GPS and also collects data before & during sampling mcn 5/3/10
1414 AECOM collect 10AE08 T0135P1BS/AS at 1814/1817 for POC/DOC/SSC
1425 AECOM collect 10AE08 T135P2 BS/AS at 1825/1826 for POC/DOC/SSC
1452 AECOM collects 10AE08 T135 P3 BS/AS at 1832/1834 for POC/DOC/SSC
Note: duplicate AECOM collected at 10AE08-T135 P3 BS called it "BT" mcn 1835 5/3/10
1437 Heading to River Mile 10.2
1450 At RM 10.2 — mapping
1503 AECOM collect 10A-E08-T102-P1 BS/AS at 1903/1907 for POC/DOC/SSC
1913 AECOM collect 10A-E08-T102 — mcn 5/3/10

Location LPR Date 5/3/10

Project / Client Lower Passaic River

Split Sampling DOC/POC/SSC

-P2 BS/AS at 1913/1914 for DOC/POC/SSC

1926 AECOM collect 10A-E08-T102-P3-BS/AS at 1926/1929 for POC/DOC/SSC

Note: MK had to inform AECOM twice about ready to sample using bottleware w/ the wrong label on them Rm. P#

Note AECOM duplicate 10A-E08-T102-P2-AS called it "AT" -dup at 1915

Note: spurts of heavy - stop sampling

AECOM did duplicate at 10A-E08-T102-P3-AS called it "AT" dup at 1929

1530 Heading to River mile 6.7

1548 At River mile 6.7 - mapping

1605 AECOM collect 10A-E08-T067-P1-BS/AS at 2005/2007 for POC/DOC/SSC

1616 AECOM collect 10A-E08-T067-P2-BS/AS at 2016/2017 for POC/DOC/SSC

1622 AECOM collect 10A E08 T067 P3 BS/AS at 2022/2024 for POC/DOC/SSC

1630 Completed Sampling / Mapping for the day Heading back to CPG facility

1705 Back at CPG Facility - crew demobing - MK off site

5/3/10

Location LPR Date 5/3/10

Project / Client Lower Passaic River

Split Sampling DOC/POC/SSC

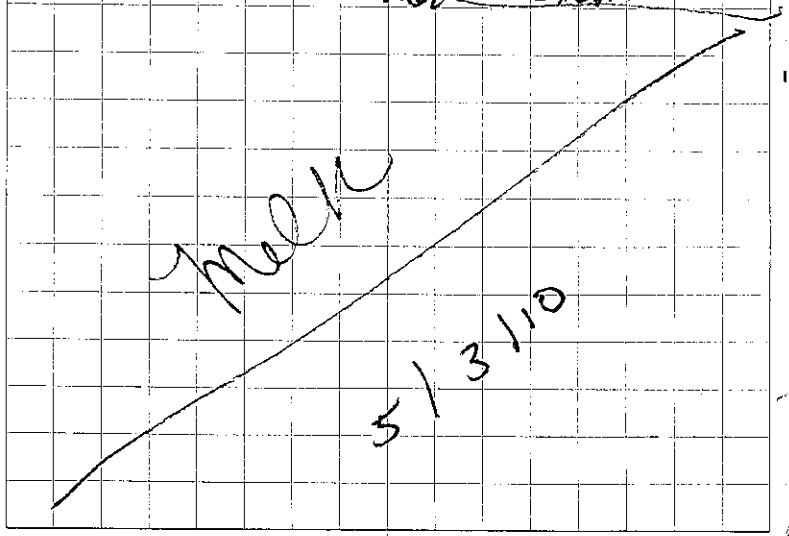
CDM Split Sample Summary

Sample ID	Time
10A-E07-T135-P3-BS-C	906
10A-E07-T135-P3-AS-C	908
10A-E07-T102-P1-AS-C	948
10A-E07-T102-P1-BS-C	945
10A-E07-T067-P3-AS-C	1108
10A-E07-T067-P3-BS-C	1106

Analysis: 1-Liter Amber - DOC/POC/SSC 0.7um; 1-Liter Amber SSC 1.5um filter - ice on boat

Laboratory: DESA Analytical

MK 5/3/10



Lower Passaic River 5-2-10
USACE LRR
J. Rabkowski
J.R 5-2-10

PPE: Modified Level D

Weather: Overcast

Personnel: Jon Walker (AECOM), JR (CDM) Dustin Kach and Steve Bodek (OSI)

Objective: AE Com will be collecting samples at river mile 1.4 and 4.2

Servicing Stations J.R 5-2-10

0755 JR arrives on RV ready II

0805 JW holds daily health and safety meeting as required in their Site HTS plan.

0810 RV ready II deploys and heads to river mile

0820 RV ready II arrives at river mile 1.4

0825 OSI currently deploying YSI

0830 computer malfuction has occured so OSI re-deploys YSI.

0835 JW of AECom Collects sample E05-T014-P3-B5-A5 and

J.R 5-2-10

Lower Passaic River 5-2-10
USACE LRR
J. Rabkowski

* Note- Samples Collected has been placed on ice.

	X	Y
E05-T014-P3-B5	597971.31	691234.20
" A5	597989.69	691224.35

0850 pulled up ADCP - SB flushes out ADCP with water 1050 OSI starts to download data from ADCP.

1020 Data download complete

1035 ADCP re-deployed. ADCP Calibrated

ADCP Coordinates	X	Y
	597001.36	691231.60

1040 DK deploys pump for ~~Sampling~~ water depth 19'

1045 JW Collects E09-T014-P3-B5 X 597999.73 Y 691231.57

JW collects E09-T014-P3-A5

* Note- nitrile gloves were worn as required in AECom's HTS Plan. Samples were Collected 3' from water surface and bottom surface.

1050 OSI arrives at Jackson Street Bridge area in J.R 5-2-10

Passaic River 5-2-10
LPRCA / USACE
J. Rakowski

order to measure

1110 OSI arrives at Proper location for Sampling
1113 E05-T042-P1-BS
X 588240.18 Y 692307.97
1115 E05-T042-P1-AS
X 588244.958 Y 692310.64
Water (river depth) 19'
1125 (4.2 mile) Pulled up ADCP - SBa- starts to clean
1140 OSI begins data download and YSI Calibration
1230 Download and Calibration onto computer from ADCP
1250 Buoy and ADCP redeployed
X 588245.50 Y 692303.12
1300 OSI stations at sampling location adjacent to buoy
1300 E09-T042-P1-BS sample time.

JR 5-2-10

Passaic River 5-2-10
LPRCA / USACE
J. Rakowski

1301 E09-T042-P1-AS sample time
* Note- AECOM's Sample collection time is in Greenwich i'e 1700 and 1701 were last two sample collection times in Greenwich.
1310 OSI takes a river depth at bridge.
1335 RV ready to arrives back at LPR yacht club.

JR 5-2-10

Passaic River 5-3-10
LPRSA / USACE
J. Rakowski

PPE: Modified Level D
Personnel: JR of CDM, JW of (Ascom), SB, and Kevin Murphy (OSI)
Weather: overcast, heavy rain
Objective: Split Sample Collection and oversight at river mile 1.4 and 4.3
0655 JR arrives onsite and prepares equipment.
0900 Louis Berger Completes work on Hackensack.
0910 SB and Kevin M depart with JR and JW.
* Note OSI
- JR will be accepting Split Samples from location 1.4 P3 and 4.3 P1
0915 JW holds H+S briefing with JR. JW particularly stresses the extreme weather that is occurring today. Rain is currently at a light pace.
JR 5-3-10

Passaic River 5-3-10
LPRSA / USACE
J. Rakowski

0930 arrive at 1.4 river mile in order for TW to sample P1 location.
0932 10A-E07-T014-P1-BS sample time
0934 " " AS sample time
10A-E07-T014-P2-BS
0939 Sample time.
10A-E07-T014-P2-AS
0940 Sample time. 10A-E07-T014-P2-BS
*0945 Split Sample 10A-E07-T014-P3-BS
*0947 Split Sample 10A-E07-T014-P3-AS * Split samples were accepted by CDM.
*1011 Split sample accepted 10A-E07-T014-P1-BS
*1013 Split sample accepted 10A-E07-T042-P1-AS
1017 10A-E07-T042-P2-BS Sample time
1018 10A-E07-T042-P2-AS Sample time.
J.R 5-3-10

Passaic River 5-3-10
LPRSA / USACE
J. Rakowski

1024 10A-E07-P3-BS Sample time.
1025 10A-E07-P3-AS sample time
1045 we meet with RU Skimmer on water for OSI coordination purposes
1115 arrive back at yacht club. JR is awaiting for an answer on the afternoon departure time. OSI is currently viewing and downloading data in order to calculate afternoon departure.
1130 OSI has determined that JR should be awaiting to board at 1400. JR dropped samples off with PB.
1350 JR onsite
1520 OSI arrives at Yacht club.
1530 OSI departs Yacht club, onboard SB,
J.R. 5-3-10

Passaic River 5-3-10
LPRSA / USACE
J. Rakowski

KM (OSI) JR (AECOM), Mike Hauser (AECom)
1545 OSI arrives at AEcom's transect area. OSI trys to line up at correct position.
1558 Sample time for E08-T014-P1-BS
1600 Sample time for E08-T014-P1-AS
1605 Sample time for E08-T014-P2-BS
1606 Sample time for E08-T014-P2-AS
* Note - water depth 15' Top sample 3', bottom 12'
1610 Sample time for E08-T014-P3-BS Sample depth 12'
1612 Sample time for E08-T014-P3-AS Sample depth 3'
1624 OSI arrives at River mile 4.2.
1633 Sample time for E08-T042-P1-BS
* Continued on Pg. 25
JR 5-3-10

Passaic River 5-3-10
LPRSA / USACE
J. Rekowski Sample Summary 5-3-10

Time	CDM ID	QA/QC	Lab
0945	10A-E07-T014-P3-BS-C	NO	Desa
0947	"	" AS " "	
1011	10A-E07-T042-P1-BS-C		
1013	"	" AS " "	

Samples were collected in 1-liter amber wide mouth jars - ice only.
1 amber for POC/DOC
" " Suspended Solids

J.R
5-3-10

Passaic River 5-3-10
LPRSA / USACE
J. Rekowski
Continued from Pg. 23
1634 Sample time for 10A-E08-T042-P1-AS
1639 Sample time for 10A-E08-T042-P2-BS Sample depth 15' water depth 18'
1639 Sample time for 10A-E08-T042-P2-AS Sample depth 3'
1643 Sample time for 10A-E08-T042-P3-BS
1645 Sample time for 10A-E08-T042-P3-AS
1705 RV Ready II arrives at Yacht Club.
1720 JR departs Site

J.R
5-3-10

Location: Passaic River Date: 5-4-10

Project/Client: LPRSA / USACE

[signature]

PPE: Modified Level D

weather: 70 farenheit

personnel: JR (CDM), Dustin Kach, ~~Ryan~~ JR 5-4-10 kyle (OSI) Jon walker AE

objective: oversight and split samples at Dundee Dam

1025 JR arrives onsite JR is awaiting Dustin Kach and crew.

1105 JR meets at Dundee Dam with OSI and AECOM.

1110 Health and safety briefing held.

1120 boat departs elmwood park in order to head to Dundee Dam.

1149 boat arrives at Dundee Dam buoy 5.

1201 E05-T175-P2-BS Sample time.

1202 E05-T175-P2-AS Sample time.

1210 OSI is pulled from the P2 buoy in order to download

JR 5-4-10

Location: Passaic River Date: 5-4-10

Project/Client: LPRSA / USACE

[signature]

data

1312 E06-T175-P1-BS Sample time

E06-T175-P1-AS Sample time

*1320 E06-T175-P2-BS Sample time, CDM accepts split sample called "" "" -C

*1321 E06-T175-P2-AS CDM accepts split sample called "" "" -C. A MS/MSD and duplicate was collected at this location. Duplicate id E06-T175-P2-AS-X.

1329 E06-T175-P3-AS Collected

1335 E06-T175-PL1-AS Collected

1350 Boat (Echo Echo) arrives back at Elmwood Park.

1410 JR departs site

Sample Summary

Time	Sample id CDM	QA/QC	Lab
1320	E06-T175-P2-BS-C		[illegible]
1321	" " AS-C	MS/MSD	↓
1321	" " ""-X	dup of AS-C	↓

JR 5-4-10

Attachment 3
Copies of Signed Chain of Custodies

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region:	2	**Date Shipped:**	5/3/2010	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	Courier	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**		1 Stefanie Britch 05/03/10 1430	
CERCLIS ID:	NJD980528996	**Shipped to:**	DESA Laboratories/EPA 2890 Woodbridge Ave Bldg. 209 Edison NJ 08837 (732) 906-6886	2	
Spill ID:	96			3	
Site Name/State:	Lower Passaic River Restoration Project/NJ			4	
Project Leader:	George Molnar				
Action:	Combined RI/FS				
Sampling Co:	CDM				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10A-E07-T01 4-P3-AS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T014-P3-AS-C S:	5/3/2010 9:47	--
10A-E07-T01 4-P3-BS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T014-P3-BS-C S:	5/3/2010 9:45	--
10A-E07-T04 2-P1-AS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T042-P1-AS-C S:	5/3/2010 10:13	--
10A-E07-T04 2-P1-BS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T042-P1-BS-C S:	5/3/2010 10:11	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

D/POCSS0.7 = DOC POC Suspended Solids (0.7 um filt, SS (1.5) = Suspended Solids (1.5 um)

TR Number: 2-043013577-050310-0001

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region:	2	**Date Shipped:**	5/3/2010	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	Courier	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**		Stefanie Britch 05/03/10 1430	
CERCLIS ID:	NJD980528996	**Shipped to:**	DESA Laboratories/EPA 2890 Woodbridge Ave Bldg. 209 Edison NJ 08837 (732) 906-6886	2	
Spill ID:	96			3	
Site Name/State:	Lower Passaic River Restoration Project/NJ			4	
Project Leader:	George Molnar				
Action:	Combined RI/FS				
Sampling Co:	CDM				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
10A-E07-T067-P3-AS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T067-P3-AS-C S: 5/3/2010	11:08	--
10A-E07-T067-P3-BS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T067-P3-BS-C S: 5/3/2010	11:06	--
10A-E07-T102-P1-AS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T102-P1-AS-C S: 5/3/2010	9:48	--
10A-E07-T102-P1-BS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T102-P1-BS-C S: 5/3/2010	9:45	--
10A-E07-T135-P3-AS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T135-P3-AS-C S: 5/3/2010	9:08	--
10A-E07-T135-P3-BS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E07-T135-P3-BS-C S: 5/3/2010	9:06	--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____
D/POCSS0.7 = DOC POC Suspended Solids (0.7 um filt, SS (1.5) = Suspended Solids (1.5 um)			

TR Number: **2-043013577-050310-0002**

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: R
Client No:

Region:	2	Date Shipped:	5/4/2010	Chain of Custody Record	Sampler Signature: Stefanie Britch
Project Code:		Carrier Name:	Courier	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:		1 Stefanie Britch 05/04/10 1600	
CERCLIS ID:	NJD980528996	Shipped to:	DESA Laboratories/EPA 2890 Woodbridge Ave Bldg. 209 Edison NJ 08837 (732) 906-6886	2	
Spill ID:	96			3	
Site Name/State:	Lower Passaic River Restoration Project/NJ			4	
Project Leader:	George Molnar				
Action:	Combined RI/FS				
Sampling Co:	CDM				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
10A-E06-T175-P2-AS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (3)	10A-E06-T175-P2-AS-C	S: 5/4/2010	13:21	--
10A-E06-T175-P2-AS-X	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E06-T175-P2-AS-X	S: 5/4/2010	13:21	FIELD DUPLICATE SJB 05/04/2010
10A-E06-T175-P2-BS-C	Surface Water/ Stefanie Britch	L/G	D/POCSS0.7 (21), SS (1.5) (21)	(Ice Only) (2)	10A-E06-T175-P2-BS-C	S: 5/4/2010	13:20	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	10A-E06-T175-P2-AS-C		
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
D/POCSS0.7 = DOC POC Suspended Solids (0.7 um filt, SS (1.5) = Suspended Solids (1.5 um)			

TR Number: 2-043013577-050410-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602